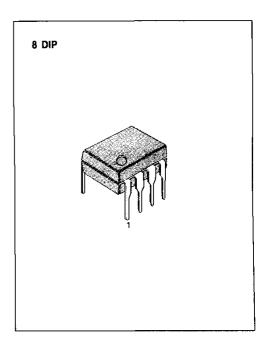
DUAL LOW VOLTAGE POWER AMPLIFIER

The KA2209 is a monolithic integrated audio amplifier in a 8-pin plastic dual in line package. It is designed for portable cassette players and radios.

FEATURES

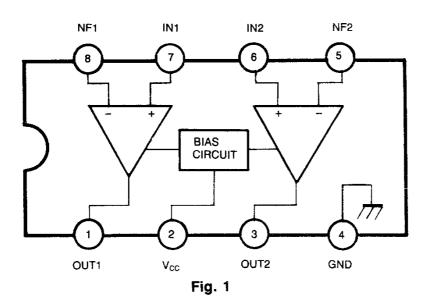
- Wide operating supply voltage: V_{cc} = 1.8V ~ 9V
- Low crossover distortion
- Low quiescent circuit current
- Bridge/stereo configuration



ORDERING INFORMATION

Device	Package	Operating Temperature
KA2209	8 DIP	-20°C~+70°C

BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Value	Unit	
Supply Voltage	V _{cc}	15	V	
Output Peak Current	I _{PK}	1	Α	
Power Dissipation	P _D	at $T_{AMB} = 50^{\circ}C$ 1.0 at $T_{CASE} = 50^{\circ}C$ 1.4	w	
Operating Temperature	TOPR	~ 20 ~ + 70	°C	
Storage Temperature	T _{STG}	− 40 ~ + 150	°C	

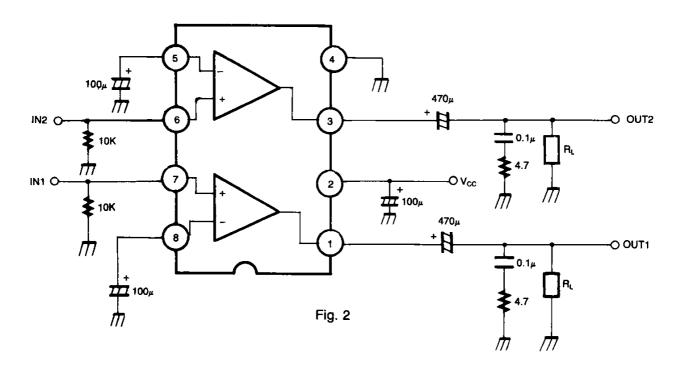
ELECTRICAL CHARACTERISTICS

(T_a =25°C, V_{CC} =6V, f=1KHz, unless otherwise specified)

Characteristic	Symbol	Test Conditions		Min	Тур	Max	Unit
Operating Voltage	V _{cc}			1.8		9	V
Quiescent Circuit Current	Icca	V ₁ = 0			9		mA
Closed Loop Voltage Gain	G _{VC}	Stereo			40		dB
		Bridge)		40		dB
Channel Balance	СВ	Stereo		– 1	0	1	dB
	Po	Stereo	V _{CC} =6V, R _L =4Ω, THD=10%	0.4	0.65		W
			V _{CC} =3V, R _L =4Ω, THD=10%		0.11		w
Output Power		Bridge	V _{CC} = 6V, R _L = 8Ω, THD=10%	0.9	1.35		w
			V _{CC} =3V, R _L =4Ω, THD=10%		0.35		w
Total Harmonic Distortion	THD	Stereo	o, $R_L = 8\Omega$, $P_O = 0.2W$		0.5		%
		Bridge	P_o , $R_L = 8\Omega$, $P_o = 0.5W$		0.5		%
Ripple Rejection Ratio	RR	Stereo, f=100Hz, C ₃ =100μF		24	30		dB
Output Noise Voltage	V _{NO}	Stereo, BW(- 3dB) = 20Hz ~ 20KHz			0.5	2.0	mV
Cross Talk	СТ	Stereo, f=1KHz			50		dB
Input Resistance	Rı			100			ΚΩ

APPLICATION CIRCUIT

1. STEREO



2. BRIDGE

